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FEDERAL GEOGRAPHIC DATA COMMITTEE

NGDA Theme Community Meeting

February 4, 2021
1:00 – 2:30 PM ET

Webinar:

Join Microsoft Teams Meeting

Dial-In (if not joining via Teams audio):

703.648.4848 / Toll Free: 855.547.8255
Code: 79000#

Agenda

- Welcome and Roll Call
- GDA Reporting Review, Status & Timeline*
- **Lead Covered Agency (LCA) Theme Report Template***
  - **Populated Template will be distributed February 8 – meeting will cover expectations**
- **David Carter (DOI GIO): GeoPlatform Update Next Generation – Beta Testing & Rollout**
- Open Discussion

*** Note:** The **GDA Reporting and LCA Theme Report Template** portion of today's agenda will be presented in a repeat Theme Community Meeting on 9 February at 1PM ET

Roll Call

Theme	Name	Agency
Address	Matt Zimolzak	Census Bureau
Address	Steve Lewis	DOT
Biodiversity and Ecosystems	Marcia McNiff	USGS
Cadastre	Dominica VanKoten	BLM
Climate and Weather	Kari Sheets	NOAA
Cultural Resources	Deidre McCarthy	NPS
Elevation	Ashley Chappell	NOAA
Elevation	Sue Buto	USGS
Geodetic Control	Daniel Roman	NOAA
Geology	Paul Godfriaux	BOEM
Geology	Dave Soller	USGS
Governmental Units	Dierdre Bevington-Attardi	Census Bureau
International Boundaries	Lee Schwartz	DOS
Imagery	Greg Snyder	USGS
Imagery	John Mootz	USDA
Land Use - Land Cover	Jim Ellenwood	USFS
Land Use - Land Cover	Brad Reed	USGS
Real Property	Valerie Butler	GSA
Soils	Drew Kinney	USDA
Transportation	Derald Dudley	DOT
Utilities - Offshore	Jeff Harris	BSEE
Utilities - Terrestrial	TBD	
Water - Inland	Megan Lang	FWS
Water - Inland	Becci Anderson	USGS
Water - Oceans and Coasts	Patrick Keown	NOAA

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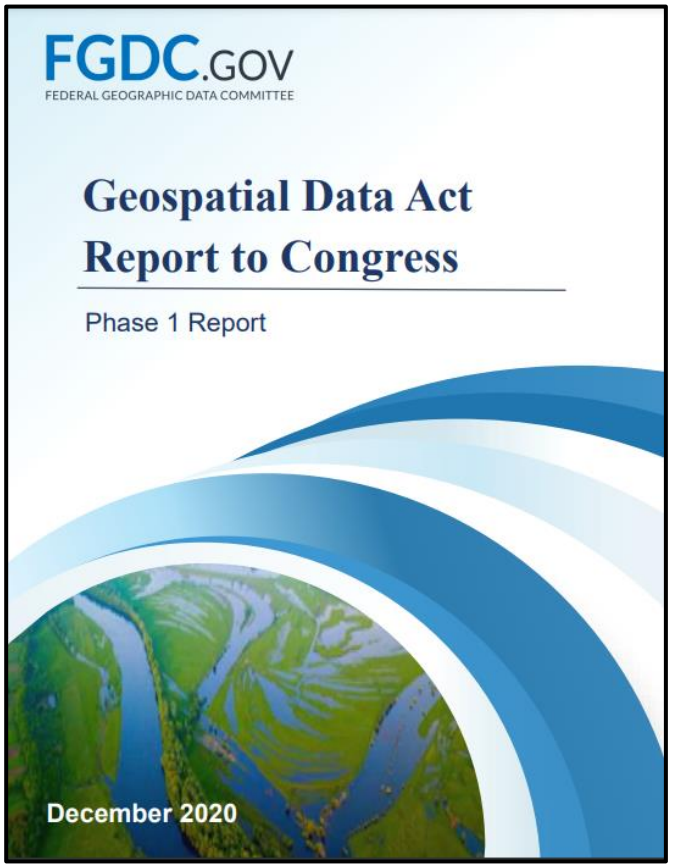
GDA Reporting Timeline & Status

2020 GDA Report to Congress – Phase 1

- Transmitted to Congress & posted at:
  https://www.fgdc.gov/gda/gda-reports/gda-report-to-congress-phase-1.pdf
- Final draft approved by FGDC Steering Committee – December 2020
- DOI/OMB review/correspondence process – Dec/Jan

Submitted to:

- Senate Commerce, Science, and Transportation Committee
- Senate Energy and Natural Resources Committee
- House Science, Space, and Technology Committee
- House Natural Resources Committee



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REVISED GDA REPORTING TIMELINE - APPROVED BY FGDC STEERING COMMITTEE 12-11-2020

Covered Agency Annual Report Timeline			Approved Timeline		
Deliverable	**Activity**	**Actions**	**Timeframe**	**Start Date (Monday)**	**Due Date (Friday)**
Agency Geospatial Strategies	**Develop Geospatial Strategies in support of NSDI Strategic Plan**	**Agencies draft strategies with the FGDC template as a resource. [Proposed timeline includes finalize, approve and publish.]**			26-Feb
CA Template and Draft Agency Reports	**Finalize Approval of CA Template**	Approval by Steering Committee			6-Nov
	Develop Survey/Distribute to Agencies	Generate Survey 123 from Template; Establish Accounts for SAOGI and Agency POCs; Test Survey	10 weeks	9-Nov	15-Jan
	Open Survey123 to Agencies	Agencies will generate reports by using Survey123 Template.	5 weeks	18-Jan	19-Feb
	Draft CA Report Generated	FGDC OS generates final draft CA Report from survey output. Provide to agencies.	2 weeks	22-Feb	5-Mar
	Agencies approve Final CA Report	Agencies review draft CA Report and notify FGDC of final acceptance	2 weeks	8-Mar	19-Mar
CA Summary Reports	**FGDC OS Generates Summary Report**	FGDC OS generates the CA Reports Summary Report	2 weeks	22-Mar	2-Apr
	NGAC / FGDC Review and Comment Process	FGDC OS: Distribute Summary Report to SC & NGAC. NGAC: Comments due from NGAC	3 weeks	5-Apr	23-Apr
		FGDC (if requested) and Agencies Respond to NGAC Comments	2 weeks	26-Apr	7-May
RTC Phase 2	**Finalize RTC Phase 2**	FGDC OS Incorporates Summary Reports and Comments into RTC Phase 2, FGDC OS finalizes RTC Phase 2 Draft	3 weeks	10-May	28-May
		Final approval of RTC by the Steering Committee	2 weeks	31-May	11-Jun
		FGDC OS Finalizes RTC Phase 2	2.5 weeks	14-Jun	30-Jun

REVISED GDA REPORTING TIMELINE - APPROVED BY FGDC STEERING COMMITTEE 12-11-2020

Lead Covered Agency Annual Report Timeline			Approved Timeline		
Deliverable	**Activity**	**Actions**	**Timeframe**	**Start Date (Monday)**	**Due Date (Friday)**
	NGDA Baseline Standard Inventory Completion				
LCA Template	**Theme Lead Approval of Draft Template**	LCA Report TemplateReview by Theme Leads	4 weeks	23-Nov	18-Dec
		FGDC OS Adjudicate Comments from Theme Leads	3 weeks	21-Dec	8-Jan
	SC Approval of Draft Template	Approval of template by Steering Committee	2 weeks	11-Jan	22-Jan
Draft Agency Reports	**Complete Draft LCA Report. Theme Leads Populate Template for 18 Theme Reports. Agencies Approve.**	Portfolio Team Populates Template	2 weeks	25-Jan	5-Feb
		Theme Leads Populate LCA Report. Obtain Agency review. Submit to FGDC OS	6 weeks	8-Feb	19-Mar
LCA Summary Reports	**FGDC OS Generates Summary Report**	FGDC OS generates a summary report of LCA Draft Reports	2 weeks	22-Mar	2-Apr
	NGAC / FGDC Review and Comment Process	FGDC OS: Distribute Summary Report to SC & NGAC. NGAC: Comments due from NGAC	3 weeks	5-Apr	23-Apr
		FGDC (if requested) and Agencies Respond to NGAC Comments	2 weeks	26-Apr	7-May
RTC Phase 2	**Finalize RTC Phase 2**	FGDC OS Incorporates Summary Reports and Comments into RTC Phase 2, FGDC OS finalizes RTC Phase 2 Draft	3 weeks	10-May	28-May
		Final approval by the Steering Committee	2 weeks	31-May	11-Jun
		FGDC OS Finalizes RTC Phase 2	2.5 weeks	14-Jun	30-Jun

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Theme Template Walkthrough

Lead Covered Agency Report - General

- Reports should Reflects the activities associated with all NGDA
  - Covered Agencies have responsibilities to contribute
- The template will facilitate consistency across 18 themes
- Portfolio Management (PfM) Team prepopulated some tables.
  - Theme Leads: Coordinate review and track any required changes. This will allow us to modify any associated lists managed by the PfM team.
- Instructions are provided in the template and *Appendix B*
  - *Template References for Populating Report Tables* provides you with examples to support your work.
- Reports will be delivered as a link to the GDA-Lead Covered Agency- Themes Team Room

PfM Team will remove all instructions and red text when final formatting is applied and drafts are finalized

Walkthrough

We're using the Transportation Theme Report as an Example

GDA-Lead Covered Agencies-Themes

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GeoPlatform Update Next Generation – Beta Testing & Rollout

David Carter, DOI GIO

GeoPlatform.gov Update February 2021

GEOPLATFORM.gov

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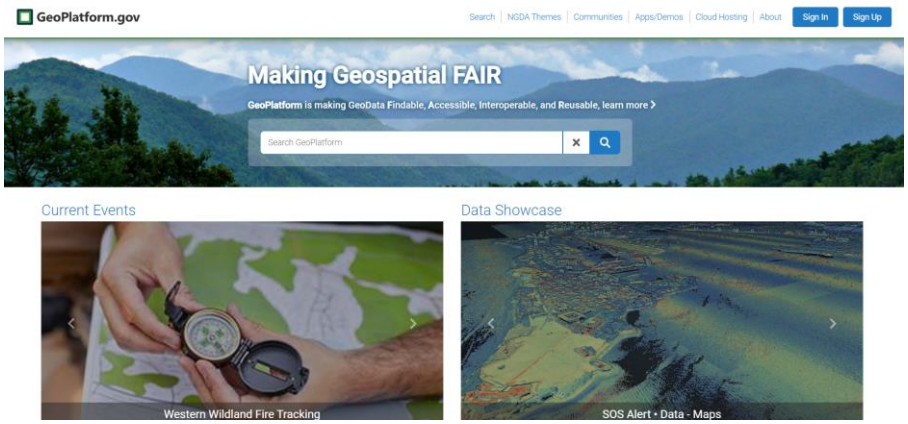
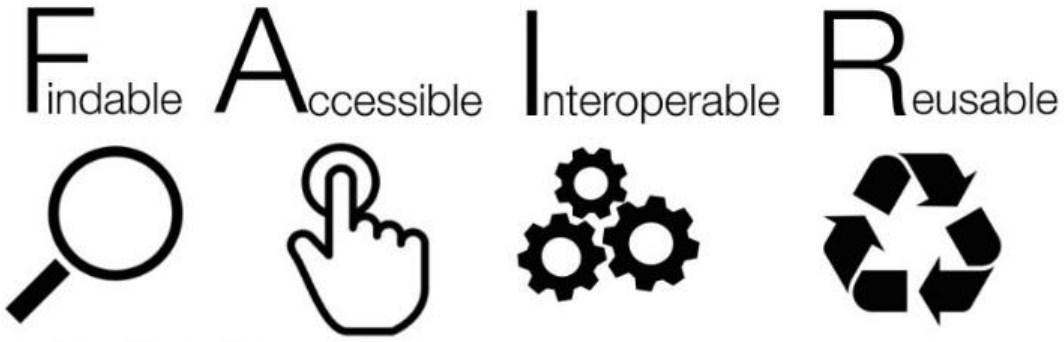
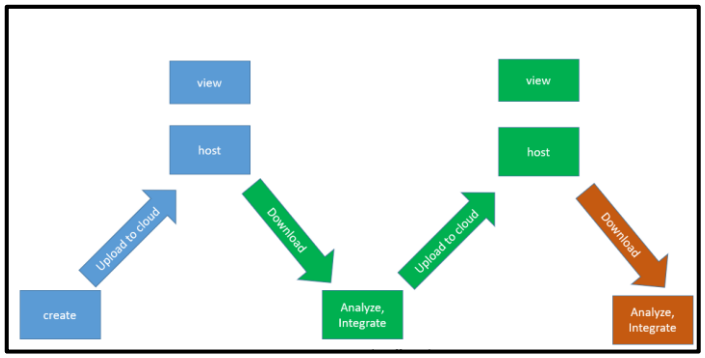
What is the GeoPlatform

- “The Committee shall operate an electronic service that provides access to geospatial data and metadata for geospatial data to the general public, to be known as the GeoPlatform” GDA § 2807




Findable
Accessible
Interoperable
Reusable

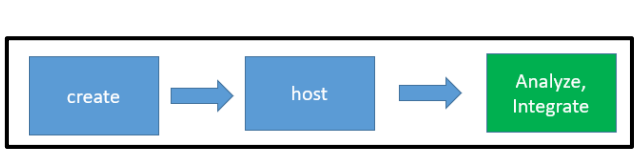
Pipeline for Data Production Generation: From Metadata Discovery to Data Discovery



Legacy Upload / Download Workflow

Legacy metadata and legacy tools support workflows that treat the cloud not much differently than an ftp site. Metadata becomes an index to a file to download to a local computer. In support of GDA implementation, Geoplatform will expand support for machine readable metadata, automated data discovery, linked open data, machine learning, and modern cloud-based workflows including open data caches.

This will provide the greatest value to public and industry for the investment in national spatial data.

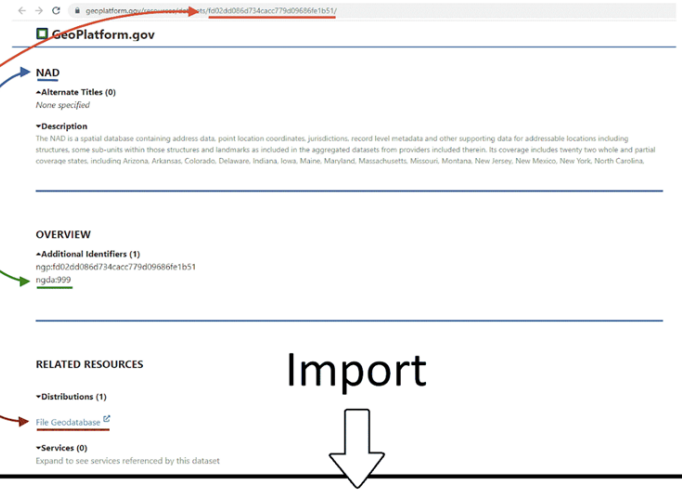


Modern Cloud Native Data Processing Pipeline`

Metadata Record

Requires

1. Valid Identifier
2. Title
3. NGDA Identifier
4. Valid Distribution

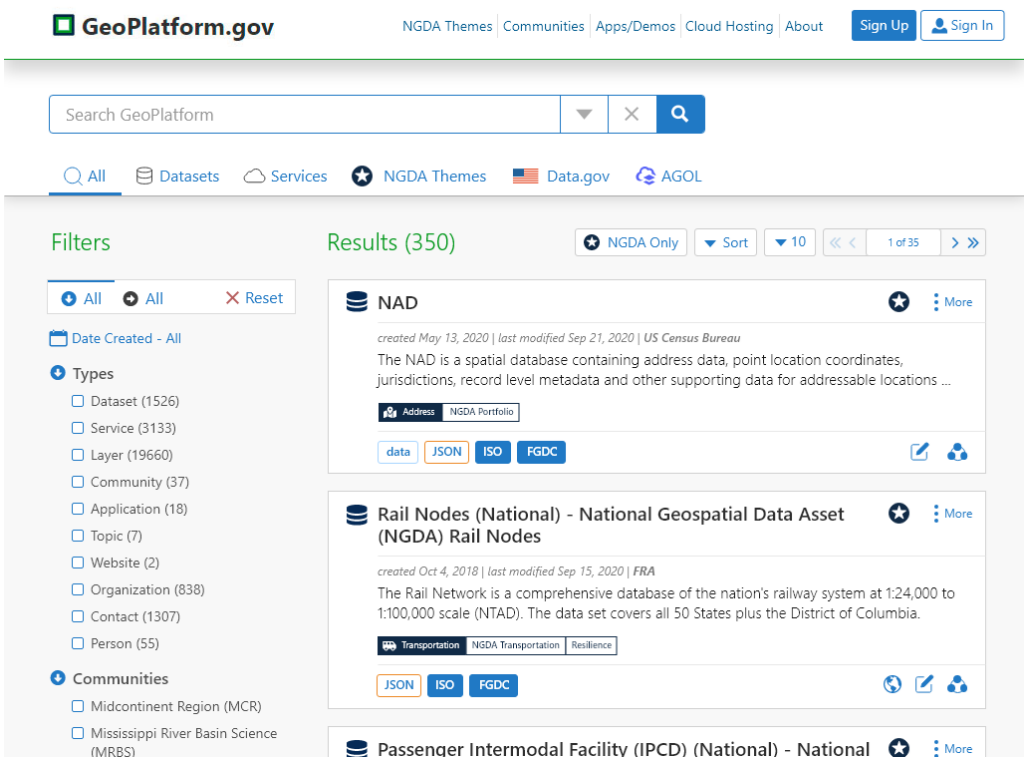


Import

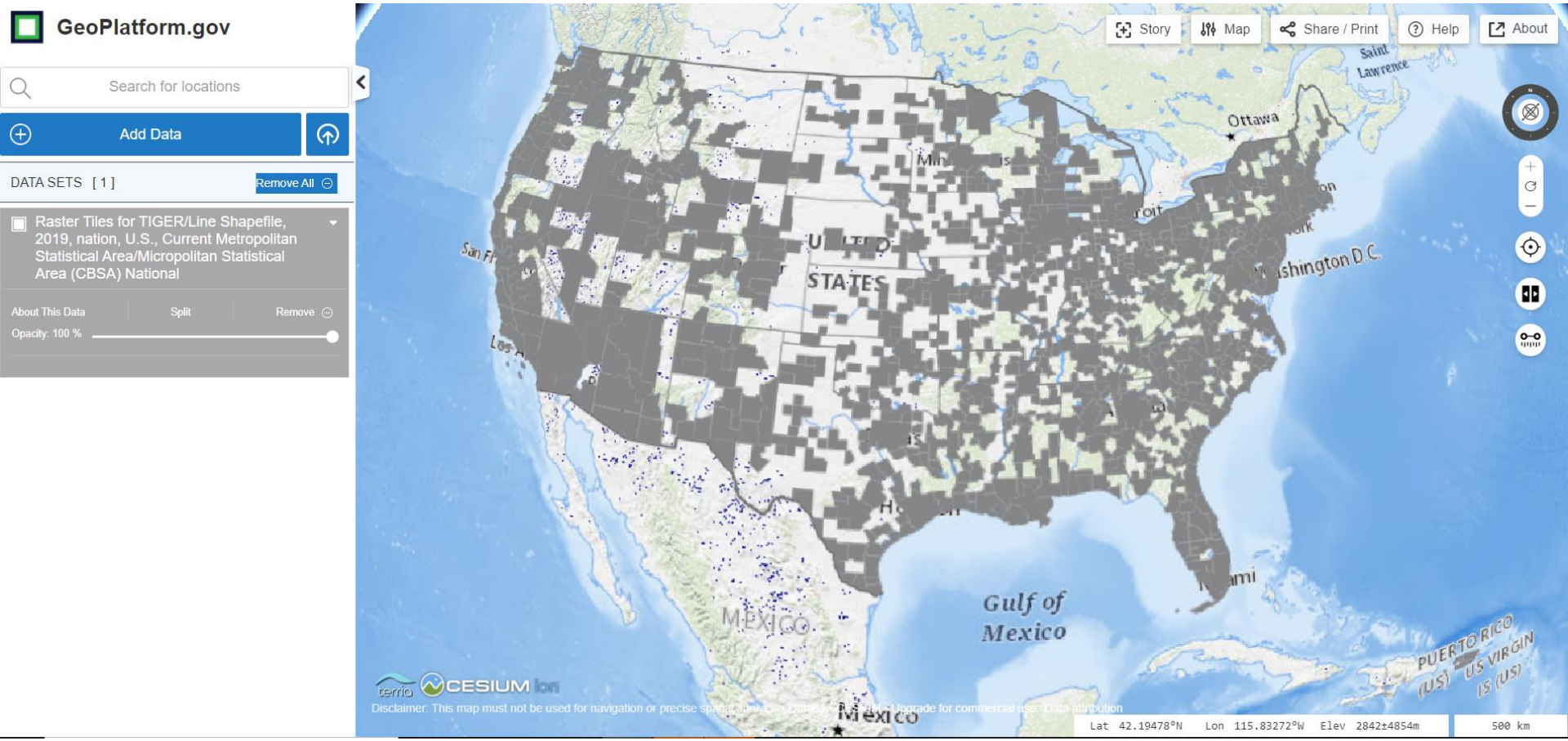
Generated Data Asset Key

Compound Reference (Metadata ID + Valid Distribution)

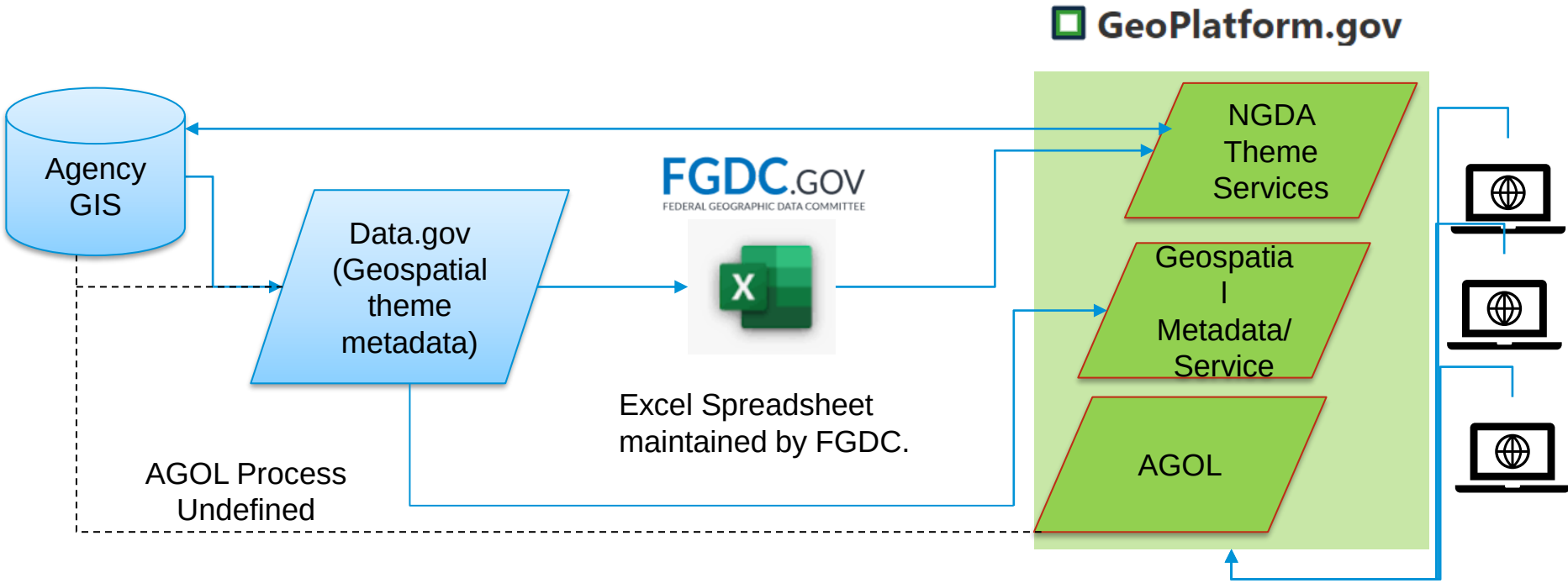
registry_id	source	item_id
d8c42744-9c24-46b2-b4f4-c95668a7bc1d	https://maps.bts.dot.gov/services/rest/services/NTAD/IntermodalFreightFacilities/MapServer/0	cb792bb8904a9625b1565a20156d1c38
9922b537-109b-44a0-8a3e-a0539e4e7824	https://maps.bts.dot.gov/services/rest/services/NTAD/Ports/MapServer/0	4798c703550e0211c0094a72112036f8
646f2e62-3a68-4dec-8e07-f442292a80b0	https://nationaladdressdata.s3.amazonaws.com/NAD_r3_revised.gdb.zip#Geodatabase/NAD_r3.gdb!NAD	fd02dd086d734cacc779d09686fe1b51
96fc814f-bfea-4b50-949a-78d69e395c9c	https://maps.bts.dot.gov/services/rest/services/NTAD/Navigable_Waterway_Nodes/MapServer/0	96ca357fab62a5bd936251c3cb772f19
82de4037-3ba3-46e4-b17f-8bbbd38e865e	https://maps.bts.dot.gov/services/rest/services/NTAD/Railroad_Lines/MapServer/0	39d8043ab3cf8f56b8c4870faf7b0782
97ac5904-289a-44ec-b8a5-c9599ca93c2c	https://maps.bts.dot.gov/services/rest/services/NTAD/Runways/MapServer/0	8eaaf33f0097d2cf220a51358c862de5
6dde33b8-a893-4ece-8b24-5548f431b025	https://maps.bts.dot.gov/services/rest/services/NTAD/National_Bridge_Inventory/MapServer/0	ef40d059a1d01e40ef6a1f4949e47e9d
d74dc414-86d4-4d7d-96df-0d12ce36b6ed	https://maps.bts.dot.gov/services/rest/services/NTAD/Railroad_Nodes/MapServer/0	5acb8a0bf63ef33dd25de03799d3c296
872da8f6-5539-447d-96c0-f63f24a6c162	https://maps.bts.dot.gov/services/rest/services/NTAD/Navigable_Waterway_Nodes/MapServer/0	2be6eb5ca0c40c468b62182169e05622
c22cb074-7398-42f1-878e-2e4383940043	https://maps.bts.dot.gov/services/rest/services/NTAD/Locks/MapServer/0	926a48160690d019a79fbfc0f4d76f73
96a06c36-ea26-4a58-8fc7-de5d2c8d2cbb	https://maps.bts.dot.gov/services/rest/services/NTAD/Intermodal_Passenger_Connectivity_Database_IPCD/MapServer/0	b561fd86303e086d696447f1399206b9
5dac49b6-95f7-40b5-87b9-d729cf7dfb90	https://tigerweb.geo.census.gov/arcgis/rest/services/TIGERweb/Transportation/MapServer/0	1f2a54409479e5d7ee72a8237d6ba625
bad54b63-1c62-4663-aef6-d41e3d41483f	https://maps.bts.dot.gov/services/rest/services/NTAD/Airports/MapServer/0	2df886acfdf15f0d30852af3cae9a85b



[Link to AdobeXD]

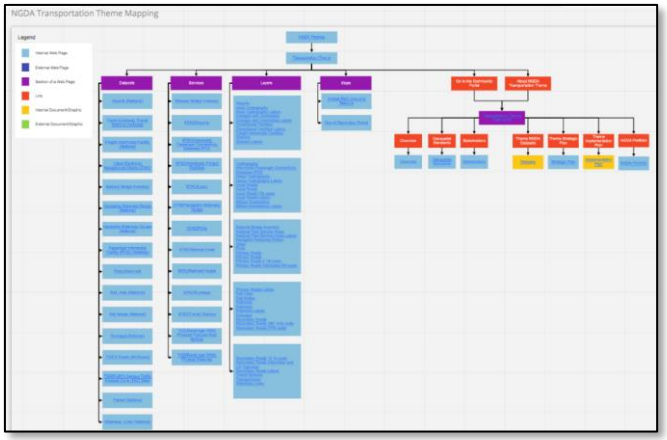

GeoPlatform.gov
Search for locations
Add Data
DATA SETS [1]
Remove All
Raster Tiles for TIGER/Line Shapefile, 2019, nation, U.S., Current Metropolitan Statistical Area/Micropolitan Statistical Area (CBSA) National
About This Data
Split
Remove
Opacity: 100 %
Story
Map
Share / Print
Help
About
Ottawa
Saint Lawrence
Washington D.C.
STATES
Gulf of Mexico
MEXICO
Mexico
PUERTO RICO (US)
US VIRGIN IS (US)
CESIUM ion
Disclaimer: This map must not be used for navigation or precise
Upgrade for commercial use
Data attribution
Lat 42.19478°N
Lon 115.83272°W
Elev 2842±4854m
500 km

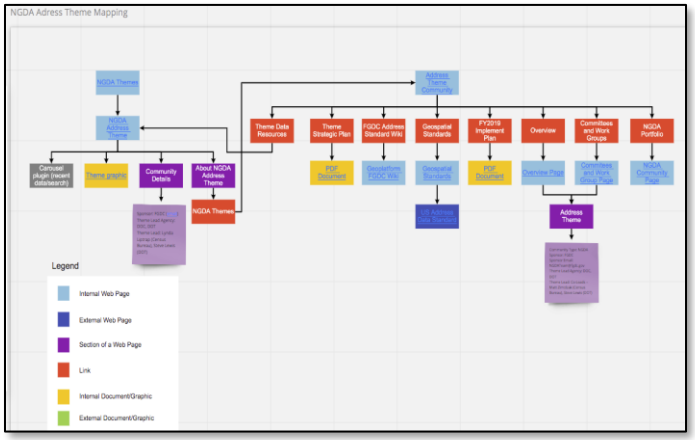
DOI Geospatial Data Flow

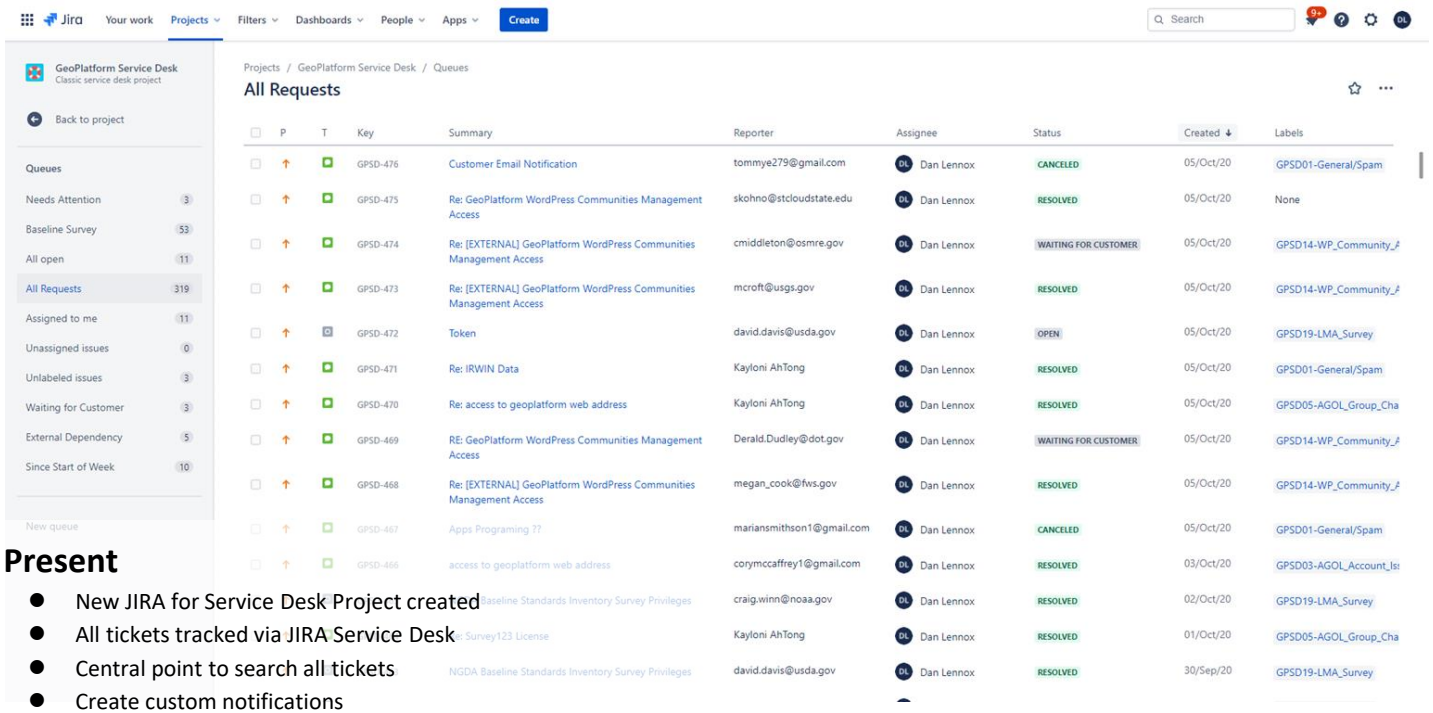


Simplify The Geoplatform Experience

Problem: Organization of NGDA Theme Communities is Complex and Inconsistent, with relatively little current authoritative content







Present

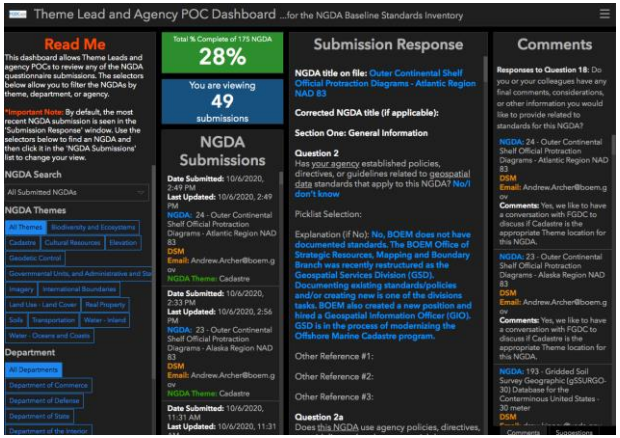
- New JIRA for Service Desk Project created
- All tickets tracked via JIRA Service Desk
- Central point to search all tickets
- Create custom notifications
- Automation
- Custom queues for tracking different requests, status, or labels
- Categorization and compartmentalization of request types

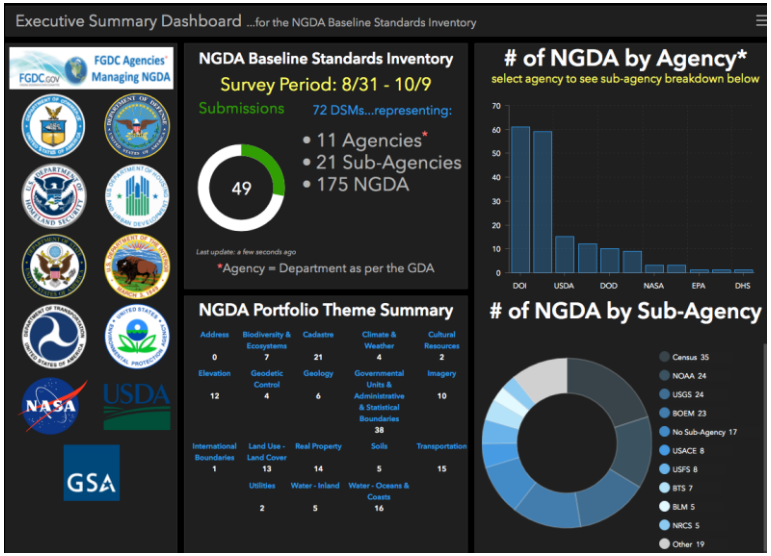
Migrated from LimeSurvey to Survey123

- Improved Survey metrics, ease of use, and additional reporting features
- Increased efficiency for the SD manually responsible for curating, editing, publishing all survey requests
- Once official shut off, funds can be relocated

Note Proposed official LimeSurvey shut off for last remaining items, the LMA (dashboard will be converted to hosted excel sheet)

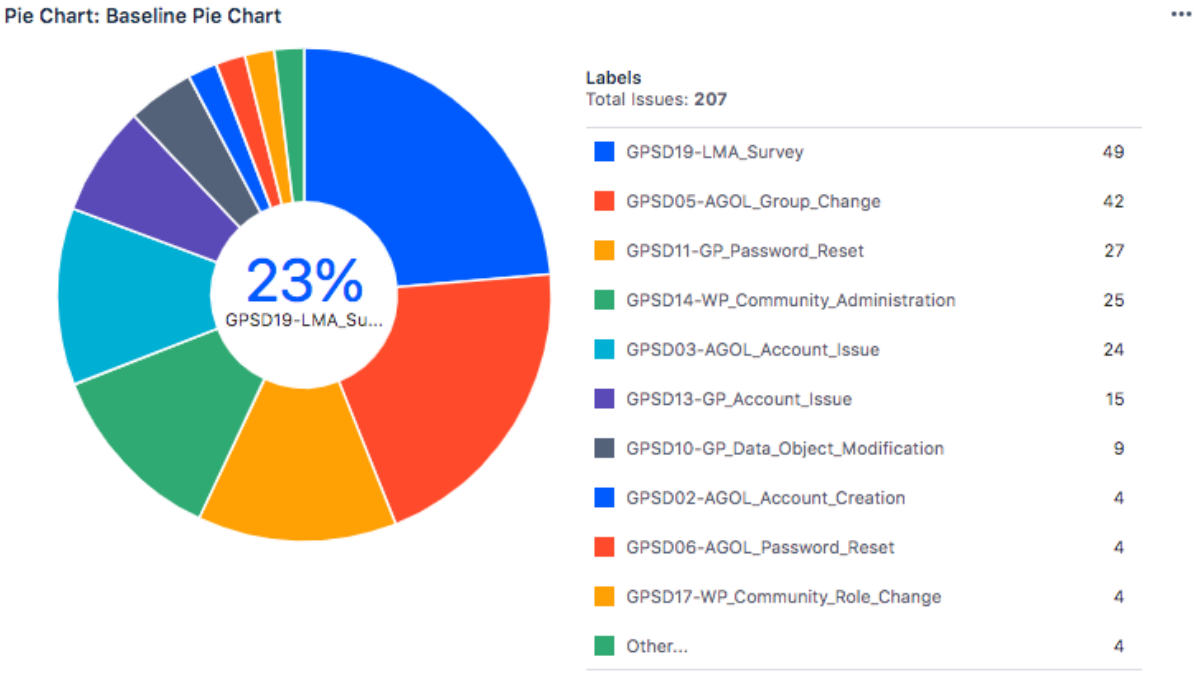
October 15th, 2020





Things to note:

- The Baseline Survey: **23%** of the total number of SD Requests.
- Baseline Survey support has the **highest** number of requests and support time



Improved Security Model

Current Limitations

- Special roles for administration and curation built into applications; difficult to configure or track
- Coarse security: read or write
- No extensibility
- No ability to model cross-cutting concerns
- OAuth 2.0 architecture, but not OIDC compliant; limits integrations
- Limited M2M options

Improved Security Model

- External role configuration with ability to apply cross-cutting concerns via group and scopes
- Fine-grained, Business-oriented roles to support NGDA needs; curation, publishing, collaboration and distribution.
- Composite security design; roles can be mixed to avoid combinatorial explosion of defined roles. Facilitates long-term maintainability.
- OIDC compliance; including additional grant_types to support service account and other M2M functions.
- Explicit role per NGDA Theme: ngda:addressing, ngda:transportation
- Functional roles: publisher, owner, etc.
- Effective permission are combined per user: “ngda:transportation + publisher” allow user to trigger process of a new official update to a dataset.

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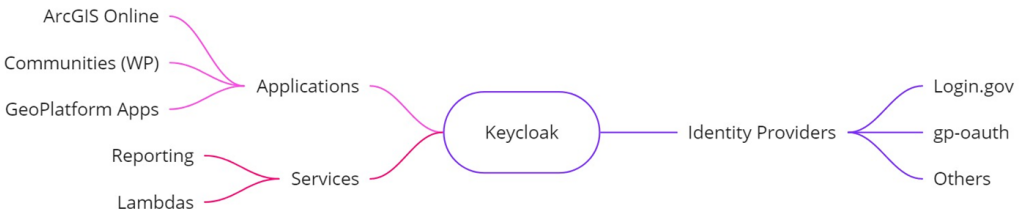
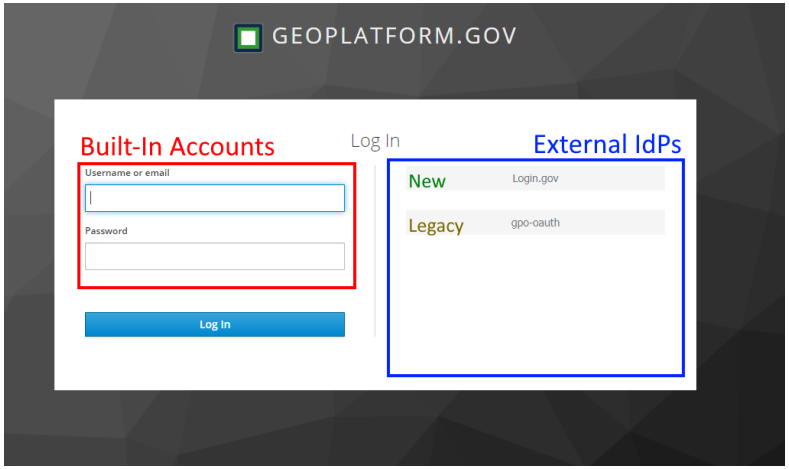
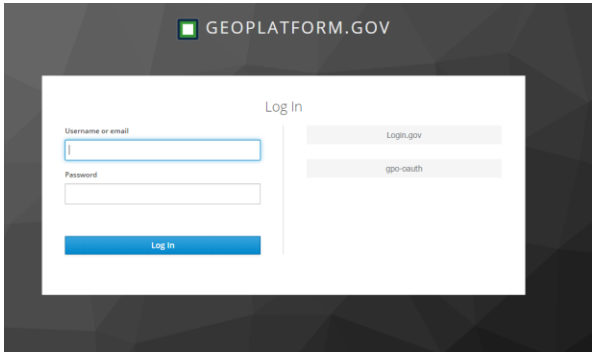

ArcGIS Online
Communities (WP)
GeoPlatform Apps
Applications
Reporting
Lambdas
Services
Keycloak
Identity Providers
Login.gov
gp-oauth
Others


GEOPLATFORM.GOV
Built-In Accounts
Log In
External IdPs
Username or email
Password
Log In
New
Login.gov
Legacy
gpo-oauth


GEOPLATFORM.GOV
Log In
Username or email
Password
Log In
Login.gov
gpo-oauth

Thank You!

GEOPLATFORM.gov

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2021 Theme Community Meeting Schedule

- **Meeting Schedule, Agenda, Slides, and Notes:**
  https://communities.geoplatform.gov/ngda-portfolio/meetings/

Date	Time (Eastern)
Jan 14 (Thursday)*	1:00 - 2:30 ET
Feb 4 (Thursday)*	1:00 - 2:30 ET
Feb 9 (Tuesday)**	1:00 - 2:30 ET
Mar 4 (Thursday)	1:00 - 2:30 ET
Apr 6 (Tuesday)	1:00 - 2:30 ET
May 6 (Thursday)	1:00 - 2:30 ET
Jun 1 (Tuesday)	1:00 - 2:30 ET
Jun 29 (Tuesday)*	1:00 - 2:30 ET
Aug 3 (Tuesday)	1:00 - 2:30 ET

** **Note:** The **GDA Reporting and LCA Theme Report Template** portion of today's agenda will be presented in a repeat Theme Community Meeting on 9 February at 1PM ET

** Denotes date adjustment due to holiday or other conflict*

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Open Discussion

Next Meeting:

Tuesday, February 2, 2021

1:00 PM – 2:30 PM ET